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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,577	10/15/2003	Ki-ho Kim	249/416 1759	
7590 12/28/2004			EXAMINER	
LEE & STER	BA, P.C.	HO, TAN		
1101 Wilson Be	oulevard	ART UNIT	PAPER NUMBER	
Arlington, VA	22209	2821		
		DATE MAILED: 12/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	- Na	A				
		Applicati	on No.	Applicant(s)				
Office Action Summary		10/684,5	77	KIM ET AL.				
		Examine	7	Art Unit	. /			
		Tan Ho		2821	P			
Period fo	The MAILING DATE of this communication a or Reply	appears on the	e cover sheet with the c	orrespondence add	iress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provision of the provi	N. 1.136(a). In no ev reply within the stat od will apply and w tute, cause the app	ent, however, may a reply be timutory minimum of thirty (30) daysill expire SIX (6) MONTHS from blication to become ABANDONE	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).				
Status	•							
1)	Responsive to communication(s) filed on							
2a)□		—— his action is r	on-final.	,				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)⊠ 6)⊠ 7)⊠ 8)□	 4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 14-18 is/are allowed. 6) ☐ Claim(s) 1-6 and 13 is/are rejected. 7) ☐ Claim(s) 7-12 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 							
Applicati	ion Papers							
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>15 October 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corn. The oath or declaration is objected to by the	are: a)⊠ acc he drawing(s) l rection is requir	be held in abeyance. See ned if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	R 1.121(d).			
Priority (ınder 35 U.S.C. § 119							
12)⊠ a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a life	ents have bee ents have bee riority docum eau (PCT Rul	en received. en received in Application ents have been receive e 17.2(a)).	on No ed in this National S	Stage			
2) Notic	et(s) De of References Cited (PTO-892) De of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 The No(s)/Mail Date 3/2004.	08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		-152)			

Application/Control Number: 10/684,577

Art Unit: 2821

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Judd (US Patent 6,160,514).

Judd discloses, in figure 2, an antenna system for indoor wireless communications comprising a first antenna 32 installed behind a first wall surface 29 of a wall 22, a second antenna 34 installed behind a second wall surface 28, a third antenna 36 installed behind a third wall surface 30, wherein the first wall surface 29 and third wall surface 30 form an angle at the protruding corner. Figure 6 shows the first antenna 32, the second antenna 34, and the third antenna 36 electrically connected to a RF unit 72.

Claims 1, 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Judd (US Patent 6,160,514).

Judd discloses, in figure 2, an antenna system for indoor wireless communications comprising a first antenna 32 installed behind a first wall surface 29 of

a wall 22, a second antenna 36 installed behind a second wall surface 30, wherein the first wall surface 29 and second wall surface 30 form an angle at the protruding corner.

Allowable Subject Matter

Claims 7-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 14-18 are allowed.

Claim 14 recites an antenna system comprising a first antenna structure installed to pass through a selected wall in a building construction, the first antenna structure having a sliding structure that is adjusted according to the thickness of the wall.

None of the prior arts shows or suggests this antenna system.

The patents to Saito et al, Frecska, Takatori et al, Kurby, and park are cite as of interest showing the antenna similar to that disclosed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan Ho whose telephone number is (571) 272-1822. The examiner can normally be reached on M-F (8:00AM - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TAN HO
PRIMARY EXAMINER